

CLAIMS

1. (CURRENTLY AMENDED) A ~~tubine~~ turbine system comprising:

a housing;

impeller member mounted on a rotatable shaft; inside said housing;

a reservoir ~~reservoir~~ means for holding a working fluid;

said reservoir means being air tight;

file a heating means for heating said reservoir means ~~exposable to a source of heat whereby working fluid in said reservoir is heated to an elevated temperature;~~

exit conduit arranged to conduct working fluid from said reservoir into said housing against said impeller member;

entry conduit for conducting working fluid from said housing into said reservoir;

exit pump means for pumping working fluid from said reservoir through said exit conduit to said housing ;

entry pump means arranged for pumping working fluid from said housing to said reservoir;

said exit pump means coupled to said entry pump means in an operable ~~operable~~ arrangement to provide that rate at which said entry pump means delivers working fluid from said housing to said reservoir equals rate at which said exit pump delivers working fluid from said reservoir ~~reservoir~~ to said housing.

~~a region within said turbine system between said entry and exit pumps and including said reservoir being close providing that said region is heated to an elevated temperature and pressure when heat from said source is applied to working fluid in said reservoir.~~

2. (ORIGINAL) The turbine system of claim 1 wherein said elevated temperature is the critical temperature of said working fluid.
3. (ORIGINAL) The turbine system of claim 1 wherein said working fluid is carbon disulfide.
4. (ORIGINAL) The turbine system of claim 1 wherein said working fluid is pentane.
- 5 (ORIGINAL) The turbine system of claim 1 wherein said impeller member is a stack of disks.

6. (CURRENTLY AMENDED) The turbine system of claim 1 wherein said housing is exposed to ambient conditions providing that said housing is at a temperature close to atmospheric ~~temperature~~ temperature and pressure.

7 (AMENDED) A turbine system comprising:

a housing;

116 a stack of disks mounted on a shaft, said shaft being rotatably mounted within said housing;

a quantity working fluid;

a reservoir ~~reservoir~~ means for holding said working fluid;

said reservoir means being gas tight;

heating means for heating said working fluid in said reservoir to an elevated ~~a critical~~ temperature of said working fluid;

exit conduit arranged to conduct working fluid from said reservoir into said housing against said impeller member;

entry conduit for conducting said working fluid from said housing into said reservoir

exit pump means for pumping working fluid from said reservoir through said exit conduit to said housing ;

entry pump means arranged for pumping working fluid from said housing through said entry conduit to said reservoir;

A6 said exit pump means coupled to said entry pump means in an operable ~~operable~~ to provide that rate at which said entry pump means delivers working fluid from said housing to said reservoir equals rate at which said exit pump delivers working fluid from said reservoir to said housing;

~~a region within said turbine system between said said entry and exit pumps including said reservoir being closed permitting that fluid in said region when heated to a critical temperature of said working fluid, pressure in said reservoir is heated to a critical pressure .~~
